

Slp 02.14

Work Order ID 73022

Wednesday, August 24, 2011 8:56:31 AM



Item ID: D350-591-311

Accept



Setup Start



Revision ID:

Stop



Item Name: Heli-Access-Step, Long LH

Start Date: 8/24/2011 Start Qty: 5.00



Cust Item ID:

Required Date: 10/14/2011 Req'd Qty: 5.00



Customer:

Reference:

Run Start



Approvals: Process Plan: *W*

Date:

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D3272

Rev B

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and type labels as per PPP D350-591-311 CHG00111

5/11/12

Adfer MLI 12-10-11

110

0.00



Large Fab

Large Fab

Memo

0.00

Large Fab

1-Bevel end for welding FWD ONLY

11.10.03 5

2-Weld Support using Jig DT8719, weld Fwd End Plate as per QSI 004 & Dwg D3272

A/R... Aluminum Rod:

114514
117384

3-Grind End Plate flush

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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NOTE: Date & initial all entries

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Approvals: Process Plan: Date: Tooling: Date:

Stop



QC: Date: SPC (Y/N): Date:

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

120

QC9- Inspect visual per QSI004- Fusion Welds

0.00



QC

Memo

0.00

Quality Control

5 0 BE 11/10/04

130

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

8 w/o 10/04

XJ
LH

140

Chemical Conversion Coat per QSI005 4.1

0.00



HandFinish

Memo

0.00

Hand Finishing

SXJ M-21110/04
LH

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start
Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

150

QC3- Inspect Part Finish

0.00



QC

Memo

0.00

Quality Control

11-10-06

5

0

180

Large Fab

0.00



Large Fab

Memo

0.00

Large Fab

1-Assemble Leg Assembly as per Dwg D3272.

2-Leave one rivet out until welding is complete.

3-Bevel Aft end for welding

4-Inspect for foreign object as per QSI 024

5-Weld Aft End Plate as per QSI 004 & Dwg D3272
A/R Aluminum Rod 114514

6-Grind End Plate flush

7-Install last rivet as per Dwg.

11-10-06

5

0

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Page 4

Accept

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

2. Once the problem is identified, the next step is to define the objectives and goals of the project. This helps to clarify what needs to be achieved and provides a clear direction for the team.

3. The third step is to develop a plan or strategy to address the problem. This involves breaking down the problem into smaller, manageable tasks and determining the resources needed to complete each task.

4. The fourth step is to implement the plan. This involves putting the strategy into action and monitoring progress regularly to ensure that the project is on track.

5. The final step is to evaluate the results of the project. This involves comparing the actual outcomes with the original objectives and goals to determine the effectiveness of the project.

Setup Start

Stop

[illegible]**Cust Item ID:**

Customer:

Reference:

Run Start

[illegible]

Stop

Operation Description

Set Up/ Run Hours

Tool ID

Tool #

Plan Code

Accept
Qty

Reject Qty

**Reject
Number**

**Insp.
Stamp**

190

QC10- Inspect visual per QSI004- ground welds

0.00



QC

Memo

0.00

Quality Control

200

QC5- Inspect part completeness to step on W/O

0.00

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

QC

Memo

0.00

Quality Control

210

Chemical Conversion Coat per QSI005 4.1

0.00

[REDACTED]

HandFinish

Memo

0.00

Hand Finishing

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
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Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

220 White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum 0.00



Powdercoat

Powder Coating

Memo

START TIME:

OVEN TEMPERATURE:

FINISH TIME:

10:30
320 °F
11:00

0.00

230 Wing Walk as per dwg QSI005 4.4 Batch 118313 0.00



HandFinish

Hand Finishing

Memo

0.00

240 QC3- Inspect Part Finish 0.00



QC

Quality Control

Memo

0.00

SXJ M/L 11/10/07

5ht d 11/10/11

5htM d 11/10/11

Dart Aerospace Ltd

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Customer:

Reference:

Run Start



Approvals:

Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

250

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

11/10/12 (Signature)

260

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

8/24/12

XS
LH

270

Packaging

0.00



Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPPD350-591-311
Location: B

SP 11-10-B

Dart Aerospace Ltd

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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Reference:

Run Start



Approvals:

Process Plan:

Date:

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

280

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

11/10/17
MF 11-10-14

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Wednesday, August 24, 2011 8:56:28 AM

Parent Item Name: Heli-Access-Step, Long LH

Required Date: 10/14/2011

Required Qty: 5.00

Comments: IPP Rev:A 04.03.22 ☐ New issue ☐ KJ/RF
IPP Rev:B 07-06-09 Added D3272-1 JLM ☐
IPP C returned to CHG001 for Eurocopter, ref NCR08-082 LL verified
by:EC IPP Rev:D fixe route seq in bom DD 10.04.28 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3272-1 		Manufactured	No			110	Each	10.0000	1	5		11.09.16	
Step													
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				WA	<u>B73029</u>	10				5			
					71963	10							
D3067-1 		Manufactured	No			110	Each	54.0000	1	5		11.09.23	
End Plate													
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				WA	<u>B73404</u>	53				5			
					67582	2							
					70700	51							
				WA016		1							
					68214	1							
D3219-1 		Manufactured	No			110	Each	88.0000	2	10		11.09.23	
Plate													
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				WA	<u>B7340</u>	48				10			
					72128	48							
				WA017		40							
					68338	40							

Dart Aerospace Ltd

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Picklist Print

Wednesday, August 24, 2011 8:56:28 AM

Page 2

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Parent Item Name: Heli-Access-Step, Long LH

Start Date: 8/24/2011

Required Date: 10/14/2011

Start Qty: 5.00

Required Qty: 5.00

D3066-1 Manufactured No

180 Each

87.0000

2

10



Spacer



11.10.06

Location

Loc Qty

Loc Code

WA

87

70699

87

10

MS20600-AD4W4

Purchased No

180 Each

1,520.000

16

80



Rivets



11.10.06

Location

Loc Qty

Loc Code

ST321

1515

116188

59

117364

1000

117601

200

117885

195

118267

61

80

WA018

5

116712

5

D3065-041

Manufactured No

180 Each

0.0000

1

5



Step Leg Assembly Hi

D3067-1

Manufactured No

180 Each

54.0000

1

5



End Plate



11.10.06

11.10.06

Location

Loc Qty

Loc Code

WA

53

67582

2

70700

51

WA016

1

68214

1

5

Wednesday, August 24, 2011 8:56:28 AM

Shop Packet Print

Page 2

Dart Aerospace Ltd

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Page 3

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Parent Item Name: Heli-Access-Step, Long LH

Start Date: 8/24/2011

Required Date: 10/14/2011

Start Qty: 5.00

Required Qty: 5.00

AN335A

Purchased

No

250

Each

157.0000



Bolt



2 10

sl

Location

Loc Qty

Loc Code

ST353

157

117619

3

117794

14

118112

40

118451

50

118628

50

Manufactured

No

250

Each

177.0000



Mounting Lug



2 10

sl

Location

Loc Qty

Loc Code

ST471

77

69837

77

ST481

100

71965

100

Manufactured

No

250

Each

26.0000



Support Assembly



10 5

B2132

Location

Loc Qty

Loc Code

ST471

26

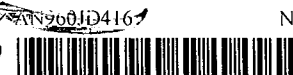
69741

26

250

Each

0.0000



Washer



16 80

M119067



Washer

NAS1149D0563J

Purchased

No

250

Each

0.0000



4 20

M118206

11/10/12

Wednesday, August 24, 2011 8:56:28 AM

Shop Packet Print

Page 3

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Start Date: 8/24/2011

Required Date: 10/14/2011

Start Qty: 5.00

Required Qty: 5.00

ANS-36A

Purchased No

250 Each

157.0000

2 10



1118830

Bolt

Location

Loc Qty

Loc Code

ST341

157

117794

7

118012

50

118451

100

Manufactured No

250 Each

132.0000

2 10

D2618



Bushing

Location

Loc Qty

Loc Code

ST019

132

70702

28

71600

104

Manufactured No

250 Each

304.0000

4 20

D2230-3



Lug

Location

Loc Qty

Loc Code

ST

220

70694

20

71964

100

72125

100

ST476

4

53881

4

ST480

80

70973

80

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Page 5

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Start Date: 8/24/2011

Required Date: 10/14/2011

Start Qty: 5.00

Required Qty: 5.00

D2856-400

Manufactured No

250 f

254.7845 1.2 6



Abraison Strip



[Handwritten signature]

Location

Loc Qty

Loc Code

ST403

38.1149

68076

38.1149

ST409

216.6696

63735

0.6696

71164

216

2 Piece 1.2

4x 4.8

*** cut (2) at 7.20" (D2856-400-720) ***

MS21042L3

Purchased No

250 Each

1,835.000



[Handwritten signature]

Nut

Location

Loc Qty

Loc Code

ST300

1835

117441

190

117601

400

117885

245

118451

1000

Purchased No

250 Each

1,006.000

AN4-13A



Bolt



10 8 40 m118706 11/10/2011 (30)

Location

Loc Qty

Loc Code

ST357

1006

117962

4

118078

594

118350

108

118351

300

Wednesday, August 24, 2011 8:56:28 AM

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Required Date: 10/14/2011

Start Qty: 5.00

Required Qty: 5.00

MS21042L5

Purchased

No

250

Each

1,153.000

Nut

Location

Loc Qty

Loc Code

ST300

1153

116105

5

116548

53

117441

494

117591

15

117611

90

118179

496

MS21042L4

Purchased

No

250

Each

4,539.000

Nut

Location

Loc Qty

Loc Code

ST300

4539

117441

394

117601

645

117885

1500

118451

2000

NAS960JD10

NAS1149D0363J

Purchased

No

250

Each

0.0000

Washer

Wednesday, August 24, 2011 8:56:29 AM

Shop Packet Print

Page 6

Dart Aerospace Ltd

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DART

DESIGN <i>qp</i>	DRAWN BY <i>B</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>LE</i>	APPROVED <i>H</i>	DRAWING NO. D3272	REV: B SHEET 1 OF 3
DATE 07.05.18		TITLE STEP ASSEMBLY, HI LONG	SCALE NTS
A	04.03.01	NEW ISSUE	
B	07.05.18	D3272-1 WAS D2622-120	

RELEASED*07.06.04 -ff*

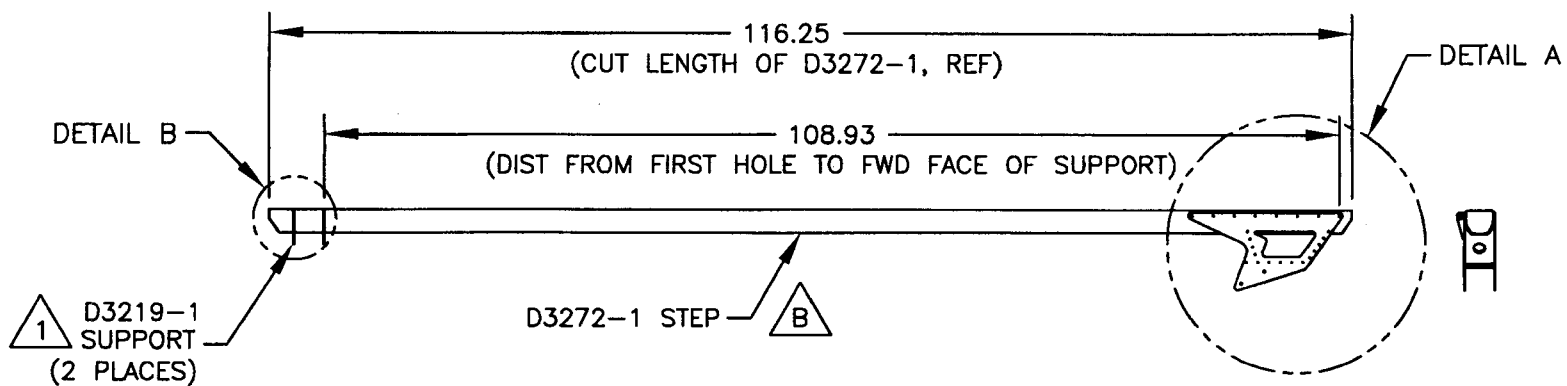
QTY -041	QTY -042	PART NUMBER	DESCRIPTION
X		D3272-041	STEP ASSEMBLY, HIGH LONG (LH)
	X	D3272-042	STEP ASSEMBLY, HIGH LONG (RH)
1	1	D3065-041	LEG ASSEMBLY
2	2	D3066-1	SPACER
2	2	D3067-1	END PLATE
2	2	D3219-1	SUPPORT
1	1	D3272-1	STEP
16	16	MS20600AD4W4	RIVET

GENERAL NOTES:

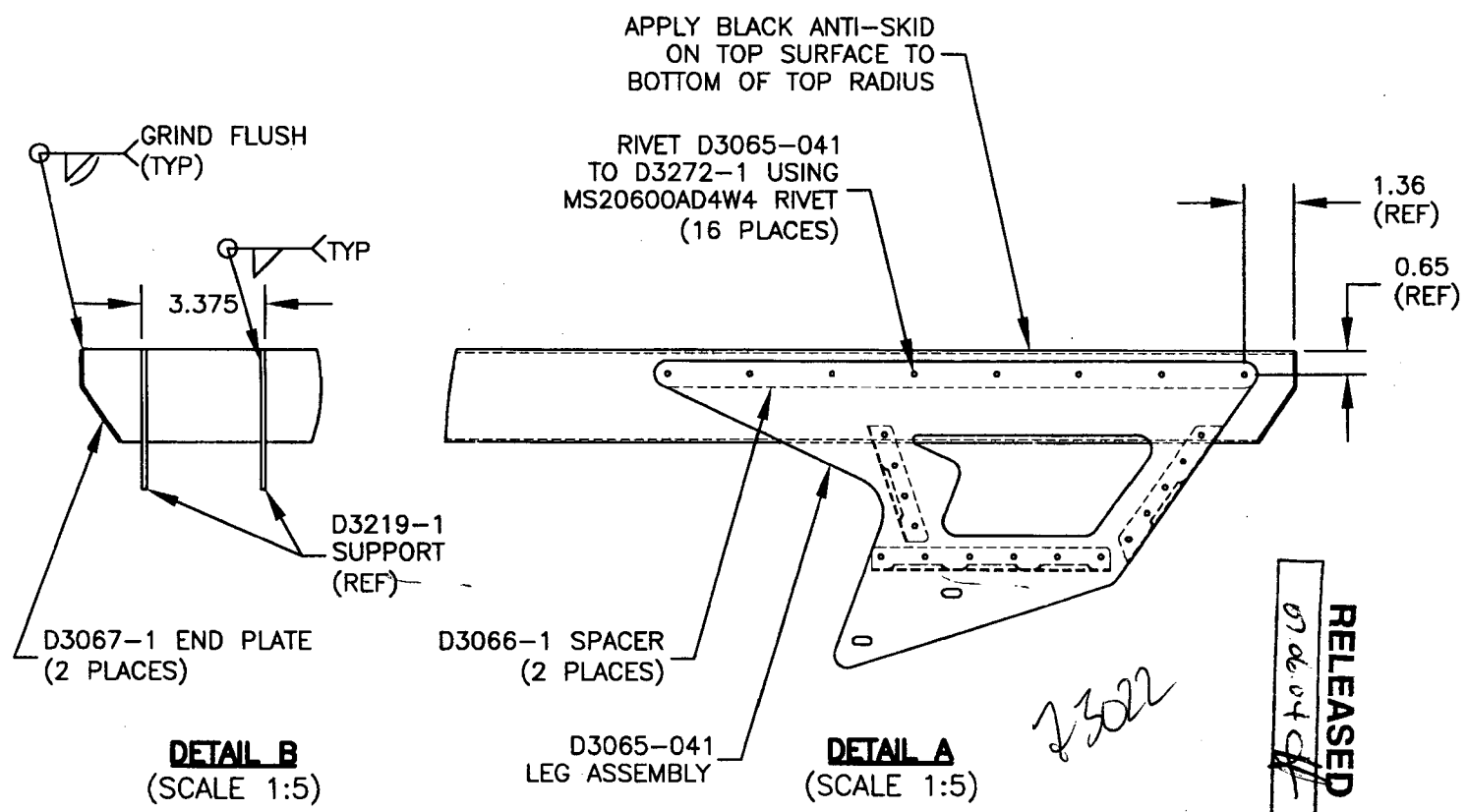
- 1) D3272-041 SHOWN. FOR D3272-042, INSTALL D3219-1 SUPPORT OPPOSITE SIDE
- 2) WELD PER DART QSI 004
- 3) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005.4.1
POWDER COAT ASSEMBLY WHITE (4.3.5.1) PER DART QSI 005 4.3
BLACK ANTI-SKID PAINT PER DART QSI 005 4.4
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 5) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
- 6) BREAK ALL SHARP EDGES 0.005 TO 0.010 MAX.

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D3272-041 STEP ASSEMBLY (LH. SHOWN)
D3272-042 STEP ASSEMBLY (RH, OPPOSITE)



RELEASED
07.06.04

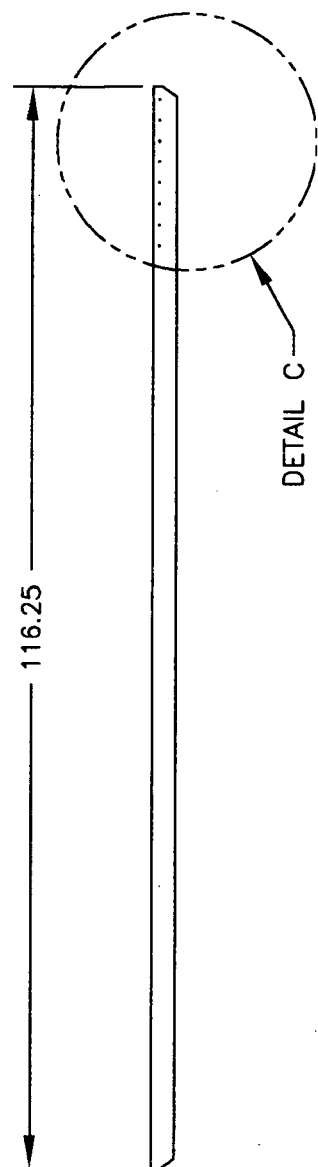
DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHECKED CE	APPROVED [Signature]	REV. B
DATE 07.05.18	DRAWING NO. D3272	SHEET 2 OF 3
	TITLE STEP ASSEMBLY, HI LONG	SCALE 1:20

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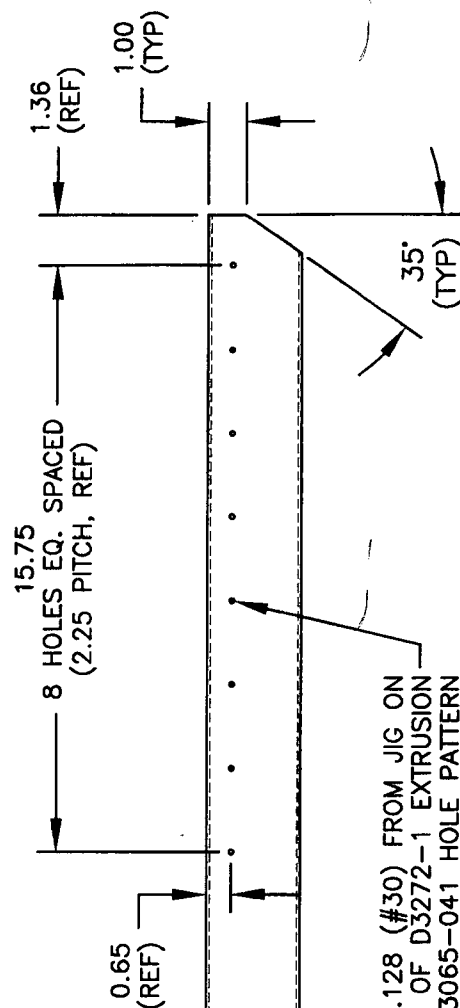


DESIGN <i>GP</i>	DRAWN BY <i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>LE</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3272	REV. B SHEET 3 OF 3
DATE 07.05.18		TITLE STEP ASSEMBLY, HI LONG	SCALE 1:20



DETAIL C

B D3272-1 STEP
(MAKE FROM D2622-120 STEP EXTRUSION)



DRILL $\phi 0.128$ (#30) FROM JIG ON
BOTH SIDES OF D3272-1 EXTRUSION
TO MATCH D3065-041 HOLE PATTERN

DETAIL C
(SCALE 1:5)

RELEASED

07.06.04 *[Signature]*

1302

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Qty -211	Qty -212	Qty -213	Qty -214	Qty -215	Qty -216	Qty -311	Qty -312	Part Number	Description
X								D350-591-211	Heli-Access-Step™, Long Step – High Skid, LH
	X							D350-591-212	Heli-Access-Step™, Long Step – High Skid, RH
		X						D350-591-213	Heli-Access-Step™, Short Step – High Skid, LH
			X					D350-591-214	Heli-Access-Step™, Short Step – High Skid, RH
				X				D350-591-215	Heli-Access-Step™, Short Step – Low Skid, LH
					X			D350-591-216	Heli-Access-Step™, Short Step – Low Skid, RH
						X		D350-591-311	Heli-Access-Step™, Long Step – High Skid, LH
							X	D350-591-312	Heli-Access-Step™, Long Step – High Skid, RH
1								D3070-041	STEP ASSEMBLY (HIGH-LONG, LH)
	1							D3070-042	STEP ASSEMBLY (HIGH-LONG, RH)
		1						D3078-041	STEP ASSEMBLY (HIGH-SHORT, LH)
			1					D3078-042	STEP ASSEMBLY (HIGH-SHORT, RH)
				1				D3168-041	STEP ASSEMBLY (LOW-SHORT, LH)
					1			D3168-042	STEP ASSEMBLY (LOW-SHORT, RH)
						1		D3272-041	STEP ASSEMBLY (HIGH-LONG, LH)
							1	D3272-042	STEP ASSEMBLY (HIGH-LONG, RH)
4	4							D2182B035	RUBBER CUSHION
		2	2	2	2			D2230-1	MOUNTING LUG
		2	2	2	2	4	4	D2230-3	MOUNTING LUG
8	8							D2274	RADIUS BLOCK
						2	2	D2618	BUSHING
4	4	4	4	4	4			D2732-030	CUSHION
2	2	1	1	1	1	2	2	D2856-400-720	ABRASION STRIP
2	2							D3064-1	CLAMP
1	1							D3079-041	SUPPORT ASSEMBLY
4	4							D3080-1	CLAMP
						2	2	D3235-1	MOUNTING LUG
						1	1	D3278-041	SUPPORT ASSEMBLY
2	2	2	2	2	2	2	2	AN3-35A	BOLT
10	10	2	2	2	2			AN4-11A	BOLT
		4	4	4	4	8	8	AN4-13A	BOLT
						2	2	AN5-36A	BOLT
4	4	4	4	4	4	4	4	AN960JD10	WASHER
20	20	12	12	12	12	16	16	AN960JD416	WASHER
						4	4	AN960JD516	WASHER
2	2	2	2	2	2	2	2	MS21042L3	NUT
10	10	6	6	6	6	8	8	MS21042L4	NUT
						2	2	MS21042L5	NUT
						1	1	*DSI 9410-011	STEP MODIFICATION KIT

*DSI 9410-011 Step Modification Kits are provided with all D350-591-311 and D350-591-312 Steps. This kit is provided as an option for the installer and is therefore **NOT REQUIRED** to complete the installation of the D350-591-311 or D350-591-312 Steps. Refer to Figure 21 for installation of the DSI 9410-011 Kit.